

Notice of Allowability

Application No.

10/721,939

Examiner

Nguyen Ngo

Applicant(s)

MAMILLAPALLI ET AL.

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to RCE of 3/1/2006.
2. ☒ The allowed claim(s) is/are 1-4, 6-16, 18-26 and 28-40.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☒ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☒ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413), Paper No./Mail Date _____
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____

DETAILED ACTION

Response to Amendment

1. This communication is in response to the RCE of 3/1/2006. All changes made to the claims have been entered. Accordingly, Claims 1-4, 6, 7-16, 18-26, 28-40 are currently pending in the application.

Allowable Subject Matter

2. Claims 1-4, 6, 7-16, 18-26, 28-40 are allowed.

The following is an examiner's statement for reason for allowance:

3. Claim 1,23, and 37 is allowable over the prior art of record since the cited references taken individually or in combination fails to particularly disclose **sending the multicast message to the plurality of nodes, the multicast message including an indication of said one or more but less than all of the plurality of nodes to acknowledge the multicast message; wherein the multicast address is distinct form the indication of said on or more but less than all of the plurality of nodes to acknowledge the multicast message, is a non-broadcast address, and is a single address of the plurality of nodes.** It is noted that the closest prior art, Lo et al. (US 6122483) discloses a method for multicast messaging in a public satellite network in which upon receipt of a multicast communication page, a subscriber unit waits a random

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delay period and then responds with an acknowledge signal. However, Lo fails to disclose or render obvious the above underlined limitations as claimed.

4. Claim 7 and 29 is allowable over the prior art of record since the cited references taken individually or in combination fails to particularly disclose **the multicast message also including an indication of at least one designated acknowledgement node designating less than all of the plurality of nodes wherein the indication of said at least one designated acknowledgement node is distinct from the multicast address; and wherein the multicast address is a non-broadcast address and is a single address for the plurality of nodes;** . It is noted that the closest prior art, Lo et al. (US 6122483) discloses a method for multicast messaging in a public satellite network in which upon receipt of a multicast communication page, a subscriber unit waits a random delay period and then responds with an acknowledge signal. However, Lo fails to disclose or render obvious the above underlined limitations as claimed.

5. Claim 11 is allowable over the prior art of record since the cited references taken individually or in combination fails to particularly disclose **the multicast message also including an indication of whether or not to delay acknowledgement of the multicast message, the indication of whether or not to delay acknowledgement of the multicast message being distinct from the multicast address, wherein the multicast address is a single address for the plurality of nodes; and the node is configured to immediately acknowledge the multicast message if the indication of**

whether or not to delay acknowledgement of the multicast message did not said identify to delay acknowledgement of the multicast message, and the indication of whether or not to delay acknowledgement of the multicast message does not define whether a message is a multicast or unicast message. It is noted that the closest prior art, Lo et al. (US 6122483) discloses a method for multicast messaging in a public satellite network in which upon receipt of a multicast communication page, a subscriber unit waits a random delay period and then responds with an acknowledge signal. However, Lo fails to disclose or render obvious the above underlined limitations as claimed.

6. Claim 12 is allowable over the prior art of record since the cited references taken individually or in combination fails to particularly disclose **the multicast message also including an indication of whether or not to delay acknowledgement of the message also including an indication of whether or not to delay acknowledgement of the message, the multicast address being a non-broadcast address and is a single address for the plurality of nodes, and the indication of whether or not to delay acknowledgment of the multicast message being distinct from the multicast address and immediately acknowledging the message in response to the indication not identifying to delay acknowledgement of the message including as its destination address the multicast address.** It is noted that the closest prior art, Lo et al. (US 6122483) discloses a apparatus for multicast messaging in a public satellite network in which upon receipt of a multicast

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communication page, a subscriber unit waits a random delay period and then responds with an acknowledge signal. However, Lo fails to disclose or render obvious the above underlined limitations as claimed.

7. Claim 13 is allowable over the prior art of record since the cited references taken individually or in combination fails to particularly disclose **wherein the multicast address is a non-broadcast, single address for the plurality of nodes: the multicast message including an indication of said one or more but less than all of the plurality of nodes to acknowledge the multicast message, wherein the multicast address is distinct from the indication of said one or more but less than all of the plurality of nodes to acknowledge the multicast message.** It is noted that the closest prior art, Lo et al. (US 6122483) discloses a apparatus for multicast messaging in a public satellite network in which upon receipt of a multicast communication page, a subscriber unit waits a random delay period and then responds with an acknowledge signal. However, Lo fails to disclose or render obvious the above underlined limitations as claimed.

8. Claim 19 is allowable over the prior art of record since the cited references taken individually or in combination fails to particularly disclose **the multicast message also including an indication of at least on designated acknowledgement node of the plurality of nodes, the indication of at least one designated acknowledgement node being distinct from the multicast address, and the multicast address being a**

non-broadcast address and is a single address for the plurality of nodes. It is noted that the closest prior art, Lo et al. (US 6122483) discloses a apparatus for multicast messaging in a public satellite network in which upon receipt of a multicast communication page, a subscriber unit waits a random delay period and then responds with an acknowledge signal. However, Lo fails to disclose or render obvious the above underlined limitations as claimed.

Conclusion

9. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

a) Shin (US 6965579), Communication System And Method For Operating Multicast Service In Communication System.

b) Hundscheidt et al. (US 6947434), Subgroup Multicasting In A Communications Network.

c) Xu (US 2005/0002365), Systems and Methods For Acknowledgement Of Multi-Cast Traffic

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Nguyen Ngo whose telephone number is (571) 272-8398. The examiner can normally be reached on Monday-Friday 7am - 3:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ricky Ngo can be reached on (571) 272-3139. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).


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